



International conference on  
**EMERGING TRENDS IN AGRICULTURAL  
SCIENCES AND TECHNOLOGIES - 2.0**



Hybrid Mode



SCAN FOR REGISTRATION



MARCH

6 & 7, 2025



9:00 AM-5:30 PM

DEPARTMENT OF AGRICULTURE (KSAH) &  
DEPARTMENT OF AGRICULTURAL ENGINEERING (SBCE)  
KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION  
KRISHNANKOIL, SRIVILLIPUTHUR

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## ABOUT KARE

Kalasalingam Academy of Research and Education (Deemed to be University), formerly known as Arulmigu Kalasalingam College of Engineering, was founded in 1984 by the esteemed philanthropist "Kalvivallal" (Late) Thiru. T. Kalasalingam. In 2006, it achieved the status of Deemed to be University. The institution offers a wide range of undergraduate and postgraduate courses, along with doctoral programs across various disciplines. Located in Krishnankoil, 10 km north of Srivilliputhur, a town of historical religious significance, the university boasts several research centers, including the International Research Centre (IRC), TIFAC-CORE in Network Engineering, Centre for Biotechnology, Centre for Nanomaterials, Centre for Multifunctional Materials, and Centre for Composite Materials. Through strategic MoUs, the university has established collaborations with numerous universities, ICAR and worldwide institutes, fostering research partnerships and facilitating faculty-student exchange programs. Notably, the institute recently earned the highest accreditation from the National Assessment and Accreditation Council (NAAC), attaining an A++ grade, reaffirming its commitment to excellence in education and research. KARE participates in NIRF every year and KARE has been ranked 30 in University, 36 in Engineering, 38 in Agriculture, 11-50 band in innovation and 50 in Overall categories in the year 2024.

## ABOUT THE DEPARTMENT OF AGRICULTURE

B.Sc. (Hons.) Agriculture was established in the year of 2017. This programme is designed to provide expertise in the field of Agriculture and allied sectors. This Programme provides knowledge on various specializations including Crop Production, Crop Protection, Crop Management, Crop Improvement, and Agricultural Social sciences. The curriculum adheres to the report of the Indian Council of Agricultural Research (ICAR) Fifth Deans' Committee. The faculty puts massive efforts into delivering incomparable agricultural education using advanced teaching pedagogy and learning support for undergraduate students. B.Sc. (Hons.) Agriculture programme is approved by UGC and it was accredited by ICAR, New Delhi. This programme provides excellent career opportunities like Agriculture officer, banking, Section officer in different authorities of Agriculture sector and Agriculture Research scientist.

## **ABOUT THE DEPARTMENT OF AGRICULTURAL ENGINEERING**

KARE started B. Tech. (Agricultural Engineering) in the year 2016 with the aim of providing engineering expertise in the field of agriculture and allied sectors. This programme provides the Knowledge on various specializations including Farm Machinery, Soil and Water Conservation, Food Processing, Irrigation and Drainage, and Bio Energy. The curriculum adheres to the report of the Indian Council of Agricultural Research (ICAR) Fifth Deans' Committee. The faculty puts massive efforts to deliver incomparable agricultural engineering education using advanced teaching pedagogy and learning support for undergraduate students. B. Tech. (Agricultural Engineering) programme is approved by AICTE and UGC, New Delhi and provides excellent career opportunities in product engineering, equipment research and design, facility design, environmental consultancy, and engineering management in the ever-expanding field of agricultural advancements.

## **THEME OF THE CONFERENCE**

1. AI and IoT for smart Agriculture
2. Energy optimization & Agricultural machineries with smart technologies
3. Millets: The Nutrient powerhouse - Innovation challenges and opportunities
4. Recent Trends in Post-harvest Technology
5. Recent Trends in crop production and protection technologies
6. Recent Trends in breeding and biotechnological approaches to crop improvement
7. Sustainable and circular economy in Agriculture
8. Sustainable Agricultural production and consumption
9. Rural Development, poverty and social issues

Apart from the above themes any abstract/Paper related to the Agriculture, Agricultural Engineering, Food science and allied sectors will be accepted

## AIM OF THE CONFERENCE

The goal of the International Conference on ETAST- 2.0 “Emerging Trends in Agricultural Sciences and Technologies-2.0” is to gather the scientists, Academicians, Researchers and students from various fields to provide a platform for discussing the recent researches and updates in the field of Agriculture and Agricultural Engineering. With nine key themes encompassing a diverse range of topics, ETAST 2.0 offers an opportunities and challenges in the field of Agriculture and Agricultural Engineering.

## GUIDELINES FOR ABSTRACT SUBMISSION

The original research work abstract for oral and poster presentations on any of the above themes are invited for the international conference. The abstract should be in editable MS Word format, Times New Roman, Font size of 12 points, 1.5 line spacing and should not exceed 350 words. The number of authors permitted per paper is limited to 4-5, and the corresponding author email id is required in the author affiliation itself. Three to five keywords should be given below the abstracts in Italics. A committee will review the abstracts and decide about the nature of the presentation (oral/poster). Acceptance of the abstract will be intimated through email only. Registration is mandatory for participation/presentation of papers. The abstract and full-length paper should be sent through e-mail- [etast@klu.ac.in](mailto:etast@klu.ac.in). The last date for abstract submission is 28/02/2025. The authors of the abstracts accepted for oral presentation will have to submit their full papers for inclusion in the compendium.

## FULL-LENGTH ARTICLE SUBMISSION

The full papers of accepted abstracts shall be evaluated, and edited and will be published in the following journals.

1. Journal of Experimental Agriculture International - NAAS 5.14
2. Biological Forum – An International Journal - NAAS 4.96
3. Journal of Technology - UGC CARE
4. Journal of Experimental Biology and Agricultural Sciences - SCOPUS

\*Authors have to pay minimal charges for the publication of their manuscripts after the acceptance by reviewers. The authors need to follow the guidelines of the particular journal in which they want to publish their research work. It is compulsory for all journals.

\*Manuscript will be accepted after the peer review process.

\*The submitted paper will be reviewed by at least two reviewers and based on the comments of reviewers, Editor-in-chief/ Editorial board will make the final decision for acceptance of the manuscript

## AWARDS

To encourage excellence and Innovation, Awards will be presented fo

1. Best oral presentation (online and Offline) in each thematic area
2. Best Poster presentation (online and Offline) in each thematic area

## REGISTRATION DETAILS

### FEES STRUCTURE FOR REGISTRATION

| CATEGORY                 | Fees (offline) | Fees (online) |
|--------------------------|----------------|---------------|
| Students                 | 500            | 300           |
| Research Scholars        | 750            | 500           |
| Academicians/Researchers | 1000           | 750           |
| Industry Persons         | 1500           | 1000          |

Registration fee includes Conference kit, Refreshment and Working Lunch.

\* In case of joint authorship of two or more authors, all the authors have to register individually for participation in conference.

\* on-spot registration available only for participation

### REGISTER IMPORTANT DATES

|  |            |
|--|------------|
| Registration opens                                   | 06/01/2025 |
| Abstract submission opens                            | 06/01/2025 |
| Last date for the abstract submission                | 28/02/2025 |
| Last date for the full paper submission              | 03/03/2025 |
| Last date for communication of acceptance to authors | 03/03/2025 |
| Last date for registration (online)                  | 03/03/2025 |

### BANK DETAILS

|                |   |
|----------------|---|
| Account name   | Emerging Trends in Agricultural Sciences and Tech |
| Account number | 627302010018077                                   |
| Account type   | Saving Bank account                               |
| Bank           | Union Bank of India, Watrap                       |
| IFSC code      | UBIN0562734                                       |

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Dean, KSAH

Dr. K.Sundar  
Dean, SBCE

Dr. M. Pallikonda Rajasekaran,  
Director R&D, KARE.

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Dr. V.Kannan (HoD)  
Dept of Agriculture

Dr.S.Shahir (HoD)  
Dept of Agricultural Engineering

## ORGANIZING SECRETARY

Dr.S.Gangadharan  
(Dept of Agri)  
9442838015

Dr.D.Sivakumar  
(Dept of Agri Engg)  
9790973774

## ORGANIZING COMMITTEE

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Mr. M. Sathishkumar  
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Dr. K. Muthulakshmi  
Dr. T. Praveen  
Dr. G. Poomarimuthukumar

### DEPT OF AGRICULTURAL ENGINEERING

Dr. G. Kalusuraman  
Mr. V. Dineshkumar  
Mr. B. Baranitharan

### ICAR- CAFRI

Dr. A. K. Handa  
Principal Scientist  
Dr. S. Suresh Ramanan  
Scientist

## ADVISORY COMMITTEE NATIONAL

1. Dr.P.Rajkumar, Professor and Dean, AEC &RI, TNAU, Trichy
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5. Dr. Manikantan M .R, Principal Scientist, Central Plantation Crops Research Institute, Kerala
6. Dr.T.Senthilkumar, Principal Scientist, Central Institute of Agricultural Engineering, Coimbatore
7. Dr. S. Shanmugasundaram, Professor, NIFTEM-T, Thanjavur
8. Mr.Rajasekar Siddheshwaran, DGM, John Deere, Pune, Maharashtra
9. Dr.V.Eyarkai Nambi, Associate professor, NIFTEM-T, Thanjavur
10. Dr.R.Pandiselvam, Scientist, Central Institute for Research on Cotton Technology, Mumbai
11. Dr. Krishnakumar T, Scientist, Central Tuber Crops Research Institute, Kerala
12. Dr. Aniesrani Delfiya, DS, Scientist, Central Institute of Fisheries Technology, Kerala
13. Dr. Vetriventhan Mani, Scientist, ICRISAT- Hyderabad
14. Dr. A. Balusamy, Scientist, ICAR- Division of System Research and Engineering (DSRE), Meghalaya
15. Dr. Janani. P, Scientist- (SPM&AP) ICAR- Central Potato Research Station, Shillong, Meghalaya
16. Dr. Sudheer Kumar Annepu, Scientist, ICAR- Indian Institute of Soil and Water Conservation, Udagamandalam.
17. Dr.Arun Prasath.V, Assistant Professor, NIT, Rourkela, Odisha
18. Mr.M.Selvakumar, VST Tillers Tractors Ltd, Hosur

## ADVISORY COMMITTEE INTERNATIONAL

1. Dr. Manikandan Ramasamy, Texas A&M University, United States of America
2. Dr. Sampath Perumal, Team Lead at Global Institute for Food Security, Saskatoon, Canada.
3. Dr. Bharani Manoharan, Department of Botany and Plant Science, University of California,
4. Dr. Dinakaran Elango, US Department of Agriculture (USDA), United States of America
5. Dr. Sathishkumar Natarajan, Principal Researcher at 3BIGS CO., LTD, South Korea
6. Dr. Gopu Nair, Assistant Professor, University of Illinois Urbana-Champaign, USA
7. Dr. Anwer Hasil, Assistant Professor, University of Ottawa, Canada

## Chief Guest



Dr. A. Arunachalam,  
Director, ICAR- Central Agro Forestry Research Institute  
Jhansi, Uttar Pradesh



Dr. Sreeramanan Subramaniam, FRSB, FMSA  
Professor,  
School of Biological Sciences,  
Universiti Sains Malaysia (USM), Malaysia

## Key Note Speakers



Dr. M. Raju,  
Professor & Head,  
Cotton Research Station, TNAU,  
Srivilliputhur



Dr. M. Arumugam Pillai  
Professor & Head  
Plant Breeding and Genetics  
V.O. C A C & R I, TNAU  
Killikulam



Dr. V. Chandrasekar  
Associate Professor  
National Institute of Food  
Technology, Entrepreneurship and  
Management-(NIFTEM-T)  
Thanjavur, Tamil Nadu



Dr. S. Elayabalan  
Associate Professor & Head  
Agriculture Biotechnology  
IAT- TNAU, Trichy



Dr. Sampath Perumal,  
Team Lead, Plant Improvement Team  
Global Institute for Food Security  
Saskatoon, Canada.



Dr. Manikandan Ramasamy,  
Associate Research Scientist  
Texas A&M University,  
United States of America



Dr. Rahul Shelake  
Research Professor at Gyeongsang  
National University  
South Korea



Dr. Humeera Tazeen  
Bioresource Engineering  
North Dakota State University  
United States of America



Dr. Sunoj Shajahan  
Assistant Professor  
Agricultural & Biological Engineering  
University of Illinois,  
United States of America